

POST TROPICAL CYCLONE REPORT

Storm Name Hurricane Ian

NWS Office Miami/South Florida

Begin/End Date 9/26/2021 - 9/28/2022

Fatalities 7

Tornadoes 11

NOTE: The data shown here are preliminary, and subject to updates and corrections as appropriate.

This report is for the following counties in South Florida: Broward, Collier, Glades, Hendry, Mainland Monroe, Miami-Dade, and Palm Beach.

Event Summary

Hurricane Ian made landfall in Southwest Florida at Cayo Costa in Lee County as a category 4 hurricane around 3 PM on September 28th, then moved northeast across the central Florida peninsula before moving off the east central Florida coast near Cape Canaveral on the morning of September 29th. A significant to devastating storm surge affected the Gulf of Mexico coasts of Charlotte, Lee, and Collier counties, penetrating a few miles inland across low-lying areas and along rivers and canals. In Collier County, extensive storm surge flooding occurred over most areas south and west of US 41/Tamiami Trail, as well as near the Gordon River, Cocohatchee River, and connecting creeks and canals. Hurricane force winds were observed in western sections of Collier, Hendry, and Glades counties near the southern and eastern eye wall of Ian. A total of 11 tornadoes were confirmed across South Florida in the northeastern quadrant of the hurricane, almost all of them in Southeast Florida from early afternoon on September 27th through the early morning of September 28th.

NOTE: It is unlikely that the point-based observations provided in this report sampled the peak values for the event.

Highest 10 Land Winds (mph)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Naples Grand Beach Resort *	Earth Networks	66	112
Kalea Bay – Vanderbilt Beach*	Earth Networks	66	106
Naples Airport Tower *	Earth Networks	67	105
East Naples	WeatherSTEM	58	89
Immokalee	WeatherSTEM	52	81
Moore Haven	WeatherSTEM	55	75
Rookery Bay	WeatherSTEM	47	75
Buckhead Ridge	WeatherSTEM	59	69

Brighton	SFWMD	50	68
Airglades Airport Clewiston	FAWN	50	67
Ortona	SFWMD	46	67

* Anemometer heights > 20 m

Highest 10 Marine Winds (mph)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Naples Pier #	NOAA NOS	56	70
Lake Okeechobee West	SFWMD	55	68
Port Everglades *	WxFlow	44	66
Lake Okeechobee Center	SFWMD	51	62
Government Cut *	WxFlow	55	61
Biscayne Bay Light 20	WxFlow	51	60
Juno Beach Pier	WxFlow	51	59
Lake Okeechobee South	SFWMD	50	59
Fowey Rocks	NOAA	50	59
Dania Pier	WxFlow	47	58
Lake Worth Pier	NOAA	45	58
Hillsboro Inlet	WxFlow	43	58

* Anemometer heights > 20 m

Incomplete Data

Highest 10 Rainfall Totals

<i>Station</i>	<i>Type</i>	<i>Inches</i>
Sawgrass Mills Mall 2 ESE	CoCoRaHS	10.33
Weston 1 WNW	CWOP	9.82
Cooper City	CoCoRaHS	9.19
Margate 1 E	CWOP	9.16
Davie 1 S	CWOP	8.83
Coral Gables	CWOP	8.67
The Acreage	CWOP	8.59
Belle Meade	WeatherSTEM	8.16
Tamarac 2 NW	UCOOP	7.66
Flamingo 9 E	HADS	7.59

Highest NOAA Tide Gauge Observations

<i>Station</i>	<i>Datum</i>	<i>Water Level (ft)</i>
Naples Pier #	MHHW	6.18
Virginia Key	MHHW	1.70
Lake Worth Pier	MHHW	1.54
Port Everglades	MHHW	1.52

Incomplete Data

Lowest 10 Pressures

<i>Station</i>	<i>Type</i>	<i>Millibars</i>
Lake Okeechobee West	SFWMD	988.5
Lake Okeechobee Center	SFWMD	989.7
Naples Municipal Airport	NWS ASOS	990.2
Palm Beach International Airport	NWS ASOS	1000.8
Lantana/Palm Beach County Airpark	AWOS	1001.7
Pompano Beach Airpark	NWS ASOS	1002.3
Fort Lauderdale Executive Airport	NWS ASOS	1002.5
Fort Lauderdale/Hollywood Int'l Airport	NWS ASOS	1002.5
Hollywood North Perry Airport	NWS ASOS	1003.2
Opa Locka Airport	NWS ASOS	1003.2

Tornadoes

<i>Primary Location</i>	<i>Date/Time ET</i>	<i>EF-Rating/Injuries</i>
Delray Beach/Kings Point	9/27 912 PM	EF-2/2

Tornado began in Boca Raton near FAU at 7:59 PM. Most significant damage was in Kings Creek west of Delray Beach where EF-2 damage was noted to townhouse buildings. Two people were injured.

North Perry Airport/Pembroke Pines 9/27 718 PM EF-1

Tornado began at North Perry Airport, where it damaged 10 planes, then continued NW across parts of Pembroke Pines and Cooper City.

Loxahatchee 9/27 936 PM EF-1

Short-track tornado damaged barns and trees.

Wellington 9/27 923 PM EF-1

Tornado began in Wellington, then moved NW to the Loxahatchee area and west of Lion Country Safari. Significant tree damage in a few areas. Several homes suffered roof damage in Wellington.

Moore Haven 9/28 225 AM EF-0

Tornado began east of US 27 in the Park Avenue area, then moved WNW to the Moore Haven Yacht Club area. Damage to trees and mobile homes.

Hollywood/Davie 9/27 759 PM EF-0

Tornado began in Hollywood east of I-95 and south of Hollywood Blvd, then continued NW to Davie. Mostly tree damage was noted.

Boynton Beach 9/28 556 AM EF-0

Brief tornado near I-95 and Boynton Beach Boulevard. Mainly tree and fence damage. Unconfirmed report of damage to city hall in the town of Gulf Stream may be from this parent storm.

Davie 9/28 131 AM EF-0
 Damage to a trailer park near I-595 and SW 136 avenue in Davie. Damage was relatively minor, mainly to siding, gutters, awnings, and trees.

Doral 9/27 622 PM EF-0
 Tree damage to police training complex in the city of Doral. Similar damage in the Fountainbleau area near the Dolphin Expressway/SR 836 and Galloway Road (NW 87 Avenue) likely from the same storm.

Far NW Miami-Dade/Everglades * 9/27 348 PM Unknown

Far W Broward County/Everglades * 9/27 358 PM Unknown

* Radar Confirmed – No Damage Surveyed

Storm Impacts

County	Deaths	Evacuations
Collier	5	32,500

Death total as of October 19th via FDLE. Number of injuries unknown. Number of evacuations is estimated. Significant to major storm surge flooding covered almost all of Collier County south/west of Tamiami Trail/US 41 from Everglades City to the Lee County line. Major storm surge flooding within a mile of the coast, both at the beachfront as well as the intracoastal waterways. Farther inland, significant to major storm surge flooding south and west of Naples Municipal Airport along the Gordon River and Rock Creek, as well as along the Cocohatchee River and Palm River areas. Wind gusts of 100-110 mph were measured at about 100-150 feet above ground level over western Collier County, with peak near-surface wind gusts likely in the 80-90 mph range. Wind damage was mainly confined to trees/fences/screens, with minor wind damage to vulnerable structures. Estimated highest number of customers without power was 201,095 as of 3 PM on September 29th. Reported damage estimates for the entire county are \$2.2 billion. Of that, \$1.7 billion is to residential properties and \$492 million to commercial. A total of 33 buildings were destroyed, with 3,515 residential and commercial buildings suffering major damage. Breakdown of damage amount by City/area: unincorporated Collier \$948 million, city of Naples \$989 million, Marco Island \$256 million, Everglades City \$7.1 million. Of The 5 reported deaths, 3 were from drowning by storm surge. Two occurred in the Sandpiper Street/Palm Street area south of Tamiami Trail about 1/3 to 1/2 mile east of Naples Bay. One occurred in the Moorings about 1/2 mile inland from the beach. Ages of the deceased Were 64, 73, and 73 years, respectively. The other 2 reported deaths were related to heart disease with contributing stress from the storm.

County	Deaths	Evacuations
Hendry	2	

Death total via FDLE as of October 19th. Number of injuries unknown. Highest winds in western Hendry county in the LaBelle area where gusts likely reached hurricane force. Maximum wind gusts in the 70 mph over eastern sections of the county. Estimated

highest number of people without power is 10,588 as of 3 PM on September 29th. Estimated damage total is \$419,000. A total of 112 structures were damaged, most in the western part of the county. One death to a 72-year old male was from a heart attack while outside during the storm. No details on the second reported death.

<i>County</i>	<i>Deaths</i>	<i>Evacuations</i>
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Glades	0	
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Number of injuries unknown. Highest winds over western and northern sections of the county where winds likely gusted to hurricane force. Maximum wind gusts in the 70 mph range over eastern sections of the county. Estimated highest number of people without power is 5,696 as of 3 PM on September 29th. Damage assessment: 3 structures destroyed, 14 with major damage, and 25 with minor damage. 2 homes severely damaged from tornado in Moore Haven.

<i>County</i>	<i>Deaths</i>	<i>Evacuations</i>
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Palm Beach	0	
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Very minor wind damage, confined to trees. Maximum wind gusts in the 50-60 mph range. Estimated highest number of people without power is 8,110 as of 3 PM September 29th. Minor tidal flooding near the times of high tide.

<i>County</i>	<i>Deaths</i>	<i>Evacuations</i>
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Broward	0	
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Very minor wind damage confined to trees. Maximum wind gusts in the 40-55 mph range, highest at the coast. Number of customers without power is 1,572 as of 3 PM September 29th. Minor tidal flooding during high tide times.

<i>County</i>	<i>Deaths</i>	<i>Evacuations</i>
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Miami-Dade	0	
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Very minor wind damage confined to trees. Maximum wind gusts in the 40-55 mph range, highest at the coast. Number of customers without power is 5,950 as of 3 PM September 29th. Minor tidal flooding during high tide times.